PROJECT TITLE : AGRICULTURAL CHEMICALS

PERIOD COVERED : DECEMBER 1980

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ROUTINE ANALYSIS

Number of samples analysed for pesticide residues in December :

Organochlorines	38
Organophosphorus	38
Dithiocarbamates	32
Maleic Hydrazide	38

The total number of samples analysed for pesticide residues at INBIFO in 1980 is given in Table 1. -

Table 1

MONTH	ORGANO-CHLORINES	ORGANO-PHOSPHORUS a)		DITHIO-CARBAMATE	MALEIC HYDRAZIDE	RIDOMIL
JAN.	38	38	(10)	25	5	0
FEB.	64	64	(4)	59	17	53
MAR.	57	57		56	0	55
APR.	56	56	(23)	30	21	0
MAY	44	44	(32)	38	32	32
JUN.	54	54	(1)	46	4	0
JUL.	69	69	(7)	43	7	2
AUG.	44	44	(18)	43	41	0
SEP.	104	66	(24)	91	98	8
OCT.	46	46	(10)	29	24	0
NOV.	27	29		25	38	0
DEC.	38	38		32	38	0
TOTAL	641	605	(129)	517	325	150

a) Numbers in brackets : Additional determinations of Methamidophos.

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For the first time Ridomil was analysed on a routine basis in 1980.

In spite of the enhanced requests for Maleic Hydrazide determinations and the additional Ridomil analysis, the total number of determinations in 1980 was only slightly higher than in 1971 (Table 2).

YEAR OF DETER-MINATION	ORGANO-CHLORINES	ORGANO-PHOSPHORUS a)	DITHIO-CARBAMATE	MALEIC HYDRAZIDE	RIDOMIL	TOTAL
1977	769	769	500	82	0	2120
1978	773	773	452	191	0	2189
1979	805	805 (31)	430	176	0	2247
1980	641	605 (129)	517	325	150	2367

a) Numbers in brackets : Additional determinations of Methamidophos.

PUBLICATION

M. Speck and E. Dirr, "Gas Chromatographic Determination of Metalaxyl (Ridomil) Residues in Tobacco", J. Chromatogr. 200 (1980) 313.

19th MEETING OF THE CORESTA PESTICIDE SUB-GROUP

The meeting took place in Trier (BRD), on 3 - 4 December, 1980.

Topics of general interest :

Pyrethroides

Mr. Toet reported that in Zimbabwe field experiments with synthetic pyrethroides in tobacco growing have been started. The experiments are not yet fully evaluated.

Kabat

It was reported that the Zoecon Corporation, which produces this substance, is making a great effort to sell Kabat to cigarette companies.

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Aldicarb

The last joint experiment gave two groups of results, one around 12 mg/kg and one around 22 mg/kg.

A new joint experiment using the CORESTA method was decided to prove if the oxidation step, the most critical step of the method, is necessary.

Ridomil

No more efforts were made to work out a method for the determination of Ridomil, because Ciba-Geigy is developing a new one, said to be of use in the determination of Ridomil and metabolites. Nothing was said about the structure of these metabolites.

Toxicological studies with Ridomil at Ciba-Geigy are not yet finished.

On tobacco, only a compound preparation of Ridomil and dithiocarbamates will be used.

Carbamates a)

Carbamates used in tobacco growing areas are Propoxur, Carbaryl, Carbofuran and Methomyl. The metabolism of this group of substances in the plant is very fast and the metabolites show only low toxicity, so that there seems to be no necessity to work out a residue method for these pesticides.

Maleic Hydrazide

No work has been reported to be going on in other tobacco companies to develop an easier and not so dangerous method for the determination of maleic hydrazide.

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a) An HPLC method for the determination of Propoxur, Carbaryl and Carbofuran was developed by INBIFO in 1979. (This was not disclosed at the pesticide sub-group meeting).

M. Speck

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